

# Traumatic Brain Injury—ED Visits

2005\*

## MASSACHUSETTS RESIDENTS

INJURY CAUSE	INJURY INTENT					Total Number	Percent of Total	Rate per 100,000 <sup>2</sup>
	Uninten- tional	Intentional		Undeter- mined	Other & Legal <sup>1</sup>			
		Self- inflicted	Assault					
Cut/pierce	269	2	81	0	0	352	0.9	5.5
Drowning/submersion	12	0	0	0		12	< .1	0.2
Fall	17,468	4	3	2		17,477	44.1	273.1
Fire/burn	8	0	2	0		10	0.0	0.2
<i>Fire/flare</i>	1	0	1	0		2	< .1	--
<i>Hot object/substance</i>	7	0	1	0		8	0.0	0.1
Firearm	6	1	3	1	1	12	< .1	0.2
Machinery	40					40	0.1	0.6
Natural/Environmental	49	0		0		49	0.1	0.8
<i>Dog bites</i>	11					11	< .1	0.2
<i>Other bites &amp; stings</i>	3					3	< .1	--
<i>All other (e.g. extreme cold)</i>	35	0		0		35	0.1	0.5
Overexertion	122					122	0.3	1.9
Poisoning	50	4	0	13	0	67	0.2	1.0
Struck by, against	7,796		2,248		43	10,087	25.4	157.6
Suffocation	2	4	3	0		9	< .1	0.1
Transport-related Injuries	8,370	2	1	0	0	8,373	21.1	130.9
<i>Motor vehicle traffic-related</i>	7,085	2	1	0	0	7,088	17.9	110.8
<i>Occupant</i>	6,075					6,075	15.3	94.9
<i>Motorcyclist</i>	198					198	0.5	3.1
<i>Pedal cyclist</i>	127					127	0.3	2.0
<i>Pedestrian</i>	331					331	0.8	5.2
<i>Unspecified person</i>	325					325	0.8	5.1
<i>Other person</i>	29					29	0.1	0.5
<i>Pedal cyclist, other</i>	778					778	2.0	12.2
<i>Pedestrian, other</i>	32					32	0.1	0.5
<i>Transportation, other</i>	475					475	1.2	7.4
Other-specified & classifiable	128	0	167	1	0	296	0.7	4.6
<i>Human bites</i>	2		25			27	0.1	0.4
<i>Non-powder gun (BB, pellet)</i>	0	0	1	1	0	2	< .1	--
<i>Other specified &amp; classifiable</i>	126	0	141	0	0	267	0.7	4.2
Other specified, not classifiable	106	18	552	11	2	689	1.7	10.8
Unspecified	825	3	560	20	9	1,417	3.6	22.1
Adverse effects <sup>3</sup>						21	< .1	0.3
No cause or intent provided						607	1.5	9.5
TOTALS <sup>4</sup>	35,251	38	3,620	48	55	39,640	100%	619.5
RATE BY INTENT/per 100,000	550.9	0.6	56.6	0.8	0.9			

Source: MA Emergency Department Discharge Database, MA Division of Health Care, Finance and Policy.

\*All data sets from Health Care Finance and Policy are based on a fiscal year. The numbers provided here are based on fiscal year: October 1, 2004 - September 30, 2005 and will be different than numbers generated through the Department's query based system MassCHIP.

<sup>1</sup> Legal Intervention includes injuries resulting from police actions and operations of war.

<sup>2</sup> Rates are not calculated on counts of less than five. Rates that are based on counts less than twenty may be unstable. Rates provided here are not age-adjusted and may differ slightly from other department publications.

<sup>3</sup> Adverse Effects can be related to medical and surgical care procedures, or to the use of therapeutic substances (including allergic reactions).

<sup>4</sup> Totals do not include subcategory counts. Total percent is presented here as 100% but may be slightly less or more due to rounding.

—An emergency department injury discharge is defined as any case having an ICD9-CM Nature of Injury Code of 800-999 assigned to any of the ICD9 diagnosis fields (cases having the following codes are excluded if no other valid ICD9-CM code is assigned: Certain Adverse Effects (995.0-995.4, 995.6, 995.7, 995.86, 995.89), Complications of Surgical & Medical Care (996-999), and certain Late Effects (909.3, 909.5))

—ED injury cases subsequently dying in the hospital are excluded from this analysis.

—Only Massachusetts residents with valid MA zip codes are included in this analysis.

—Due to data quality issues, the external cause of injury codes (E-Codes) for one hospital, have been excluded from analysis. Total injury counts presented in this matrix include injuries captured only in the primary ICD9 field for this hospital.

—Population data used to calculate rates are based on 2005 population estimates released August 11, 2006 by the US Census Bureau. Estimated 2005 Massachusetts population is 6,398,743. Rates are not age-adjusted.

—Categories and groupings are based on a modified version of the CDC's "Recommended framework of E-code groupings for presenting injury mortality and morbidity data." This framework does not provide for intentionality for certain cause categories as indicated by gray shading. Injury subcategories are italicized.

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